WHAT IS CLAIMED IS:

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| | 1. | For | use | with | an | elect | ric | mete | r ch | assi | s l | naving | a |
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| diel | ectri | c hou | sing | protru | ding | ther | efrom | , an | anter | nna | for | allow | ing |
| elec | tric | mete | r√ ci | rcuitry | wi | thin | said | cha | ssis | to | cor | mmunic | ate |
| wirelessly through said dielectric housing, comprising: | | | | | | | | | | | | | |

a wireless communication circuit couplable to said electric meter circuitry; and

an antenna element located within said dielectric housing coupled to said wireless communication circuit.

- 2. The antenna as recited in Claim 1 wherein said antenna generally conforms to a portion of an internal surface of said dielectric housing.
- 3. The antenna as recited in Claim 1 wherein said chassis Said comprises electric meter circuitry located in a circuit board rack within said dielectric housing, said antenna located between circuit boards in said circuit board rack.

- 4. The antenna as recited in Claim 1 wherein said chassis 2 comprises:
- 3 electric meter circuitry located in said dielectric housing;
- 4 and
- 5 an electromagnetic shield located about at least a portion of
- said electric meter circuitry.
- 5. The antenna as recited in Claim 1 wherein said antenna 2 _ element is arcuate and has a flattened lateral cross section.
 - The antenna as recited in Claim 1 wherein said antenna is à dipole antenna.
- The antenna as recited in Claim 1 wherein said wireless 7. communication circuit has a carrier frequency of between 700 and 950 megahertz.

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providing a wireless communication circuit couplable to said electric meter circuitry; and

locating an antenna element within said dielectric housing, said antenna coupled to said wireless communication circuit.

- 9. The method as recited in Claim 8 further comprising causing said antenna to generally conform to a portion of an internal surface of said dielectric housing.
- 10. The method as recited in Claim 8 further comprising Said placing electric meter circuitry in a circuit board rack within said dielectric housing, said antenna located between circuit boards in said circuit board rack.
- 11. The method as recited in Claim 8 further comprising: placing electric meter circuitry in said dielectric housing; and
- placing an electromagnetic shield about at least a portion of said electric meter circuitry.

- 12. The method as recited in Claim 8 further comprising
- 2 forming said antenna into a metal arc having a flattened lateral
- 3 cross section.
- 13. The method as recited in Claim 8 wherein said antenna is
- 2 a dipole antenna.
 - 14. The method as recited in Claim 8 further comprising generating a carrier frequency of between 700 and 950 megahertz in a wireless communication circuit.

- 15. An electric meter, comprising:
- 2 an electric meter chassis having a dielectric housing 3 protruding therefrom;
 - electric meter circuitry;

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- a wireless communication circuit couplable to said electric meter circuitry; and
- an antenna element located within said dielectric housing coupled to said wireless communication circuit.
 - 16. The meter as recited in Claim 15 wherein said antenna generally conforms to a portion of an internal surface of said dielectric housing.
 - 17. The meter as recited in Claim 15 further comprising an electromagnetic shield located about at least a portion of said electric meter circuitry.
- 18. The meter as recited in Claim 15 wherein said antenna is arcuate and has a flattened lateral cross section.
- 19. The meter as recited in Claim 15 wherein said antenna is2 a dipole antenna.

- 20. The meter as recited in Claim 15 wherein said wireless

 communication circuit has a carrier frequency of between 700 and

 950 megahertz.
- 21. The meter as recited in Claim 15 wherein said wireless communication circuit communicates meter billing information.
 - 22. The meter as recited in Claim 15 wherein said wireless communication circuit communicates information selected from the group consisting of:

energy usage,
power demand, and
power factor.

- 23. The meter as recited in Claim 15 wherein said wireless communication circuit communicates information selected from the group consisting of:
- 4 time of use, and
- 5 interval recordings of energy usage.

- 24. The meter as recited in Claim 15 wherein said wireless communication circuit communicates information selected from the group consisting of:
- 4 power quality information,

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- 5 power outage information,
- 6 site analysis information, and
- 7 diagnostic information.
 - 25. The meter as recited in Claim 15 wherein said chassis comprises a capacitively backed up power supply that powers said electric meter circuitry and said wireless communication circuit, thereby allowing said wireless communication circuit to communicate power outage information during a loss of power.
 - 26. The meter as recited in Claim 15 wherein said balance circuit is a microstrip
- 27. The meter as recited in Claim 15 wherein said chassis
 2 comprises a flex strip connector that couples said wireless
 3 communication circuit to said electric meter circuitry.